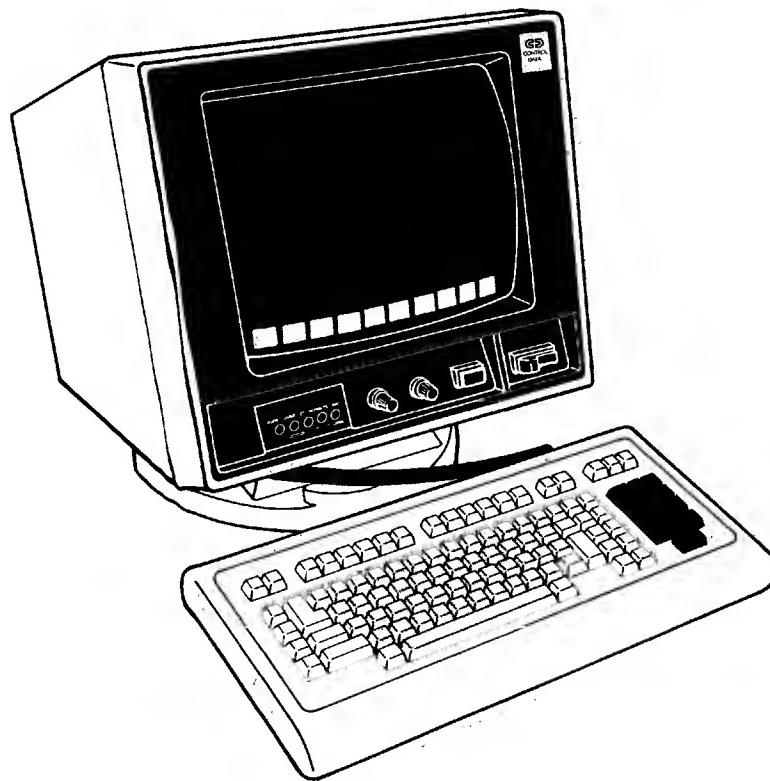


DATA SHEET • **CDC 721 DISPLAY TERMINAL
(TTY MODE)**

A Product of Control Data Corporation

The following conventions and procedures pertain to the use of the CDC 721-20 and 721-30 terminal into the CYBERNET network at 120 CPS using the resident CYBER mode ROM.

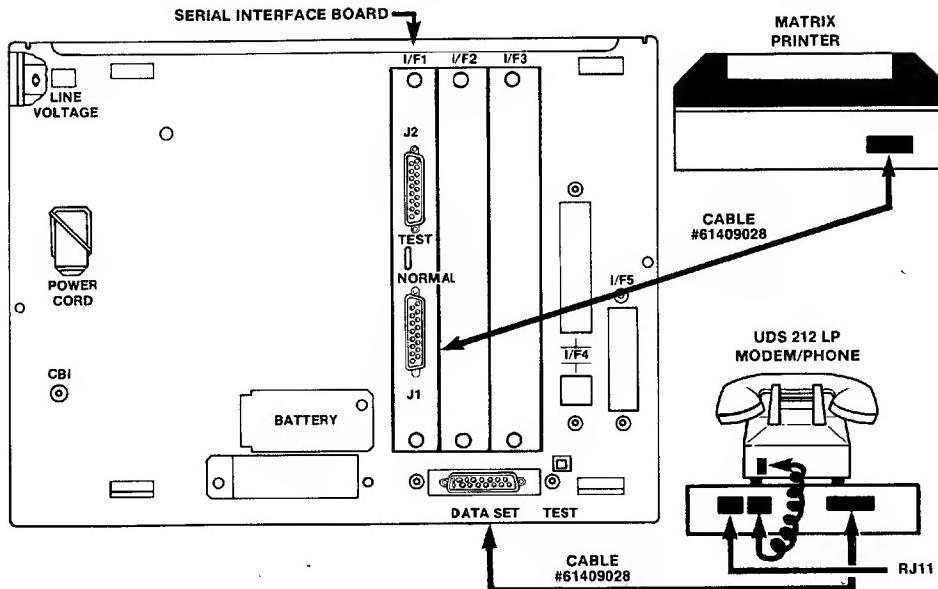
FIGURE 1—CDC 721 DISPLAY TERMINAL (FRONT VIEW)



CONNECTING THE EQUIPMENT

1. Hooking up the communications . . .
Before connecting the modem to the telephone network, the telephone company must be provided with the following:
 - Your telephone number
 - The modem FCC registration number
 - The ringer equivalence number
 - The type of phone jack used (RJ11, RJ45)
2. Connect the modem to the DATA SET port on the back of the terminal using the RS 232 cable (Figure 2).
3. Install the Serial-Interface Board (Equipment No. YR101) in back of terminal (Figure 2).
4. Connect the peripherals and cables as shown in Figure 2.
5. Connect the power cord to the terminal and then to an appropriate power source.
6. Install the supplied battery in back of terminal (Figure 2).

FIGURE 2—CDC 721 DISPLAY TERMINAL (BACK VIEW)



TERMINAL CONFIGURATION

The terminal can be configured with a variety of options. The settings below offer one combination that will allow the terminal to perform as an interactive terminal with matrix printer on the CYBERNET network at 120 CPS.

1. Ensure BRIGHTNESS and CONTRAST knobs on the front of the terminal are turned all the way to the right. Power up all equipment. The terminal will perform some internal diagnostic tests and then display:

F MODE 1 1 CYBER	F MODE 2 2 PLATO	F MODE 3 3 CP/M	F MODE 4 4 DISK	F MODE 5 5 C120	F MODE 6 6 XXXX	F MODE 7 7 PACK	F TERMNL 8 TEST	F 9	F 10
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2. If the parameters are already set, proceed to Step 9.
3. Simultaneously depress the CTRL and SETUP keys. The terminal displays a set of configuration parameters at the bottom of the screen. Set the parameters as follows. The cursor is already at the first character position of the F2-CONFIG box. Just enter the number/alphas as they appear inside the boxes from left-to-right through F9. The cursor will automatically advance.

F RETURN 1	0 1 1 0 0 2 0 0 1 0 0	0 0 1 1 0 0 3 0 0 0 0 0 0	0 0 0 1 0 0 4 0 0 0 0 0 0	0 0 0 0 1 0 0 5 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 6 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 7 0 0 0 0 0 0 0	4 6 8 0 0 0 9 0 0 0 0 10 0 0 0 0	A 6 8 0 0 0 9 A 6 10 M O D E N
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4. Depress the COPY key to retain these configuration parameters.
 5. Depress the F10 function key to enter installation mode parameter settings. The following is displayed:
- ENTER MODE n (1-6)
6. Enter a 1 (for CYBER mode). The terminal displays a set of configuration parameters at the bottom of the screen. Set the parameters as follows. The cursor is already at the first character position of the F2-CONFIG box. Enter the numbers/alphas as they appear inside the boxes from left-to-right through F10. The cursor will automatically advance.

F RETURN 1	1 0 0 0 0 0 2 0 0 0 1 1 0	0 0 0 1 1 0 0 3 0 0 0 1 1 0	0 0 0 1 0 0 0 0 4 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 5 0 1 0 0 0 0 0 0	6 C 6 5 F O P R O F 6 C 0 4	0 0 0 0 0 0 0 0 7 A - D I A L 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 8 A - D I A L 0 0 0 0 0 0 0	0 0 9 9 9 D F T R 9 0 0 6 6	0 0 0 0 0 0 0 0 10 A C C E S S 0 0 0 0 0 0 0
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7. Depress the COPY key to retain the above configuration parameters.
8. Depress the F1 FUNCTION key to return to the "mode display" as shown in step 1 above.
9. Depress the F1 FUNCTION key to place terminal in CYBER mode using the previously established parameters. The cursor should appear in the upper left-corner of the screen. The terminal is now ready for use as an interactive terminal. Proceed to Standard Log-In Procedure.

NOTE: The parameters are set in non-volatile memory which is powered by battery to hold the parameters during power down. If the battery fails or the stored parameters are otherwise lost, default parameters remain. Repeat steps 3 through 7 to reload the desired parameters. Replace the battery with the terminal power on to prevent loss of parameters.

STANDARD LOG-IN PROCEDURE

Verification of this procedure was performed with an AJ1234 coupler

1. Terminal and modem external and internal switches must be properly set and power must be supplied to the terminal.
2. Power-up the modem, dial the network telephone number and place the modem/phone in data transfer mode. The terminal will display a double slash (//) when communication with the network is established. The DATA SET READY (DSR) indicator on the terminal will illuminate. Perform a carriage return which is hereafter represented by the symbol (CR).
3. The network will respond and the terminal will display:
NET XXXXXX (X's represent any decimal digit)
PLEASE SIGN ON—
4. Enter the appropriate family name and unique user name. Follow with a carriage return:
family name, user name (CR)
A message will return indicating various information signifying that communication has been established. A request for the password follows:
5. Enter the valid password followed by a carriage return:
password (CR)
6. If a charge number is requested, enter the charge information, followed by a carriage return:
CHARGE, chargeno, projectno (CR)
7. The next command must define the padding option. Enter the TTYPE command followed by a carriage return:
TTYPE, CRT (CR)
Log-in is complete. The system is now ready to accept interactive NOS commands. Refer to Volume 1 of the CYBERNET NOS Computer Service Reference Set (publication no. 84000320) for further information on interactive processing.

NOTES:

Some of the terminal characteristics can be *temporarily* altered by depressing the SETUP key while in CYBER mode. The following is displayed. The characteristic can be altered by depressing the "Function Key" shown to the left of the indicator. Example: Depressing the F3 function key will turn the printer off; depressing it again will return it to on.

F 1 RETURN	F 2 LINE	F 3 PRINTER	F 4 MARGIN	F 5 ALERT	F 6 LOCK	F 7 N DAD	F 8 SCREEN	F 9 CYBER	F 10 MORE
1	ON	ON	ON	SOFT	ALPHA	NORMAL	ROLL	LARGE	SELECT

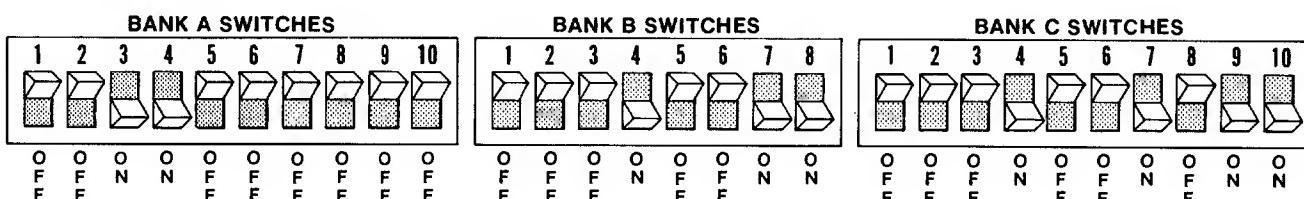
Depress F10 function key to display more options.

F 1 RETURN	F 2 BACKGD	F 3 CURSOR	F 4 CURSOR	F 5 SPARE	F 6 DUPLEX	F 7 CHR/LN	F 8 LINES	F 9 XPARNT	F 10 MODE
1	DARK	LINE	BLINK	ZERO	HALF	80	24	OFF	SELECT

Depress F1 function key to return to previous operation.

USING THE MATRIX PRINTER (725-10)

- Set up paper and ribbon according to the printer operator guide.
- Turn power ON. Switch is located on the back right-hand corner of the unit.
- Depress the HOLD button on the printer control panel.
- Perform printer self-test by simultaneously depressing and holding down the STEP and FORM buttons until the self-test is initiated.
- Depress the RESET button to halt the tests.
- Set the switches on the back left-corner of the unit as follows. The switches are located above the RS232 cable connector.
- Release the HOLD button for online operation.



NOTES:

1. Switch B4 sets the printer to receive at 1200 baud.
2. Switches 9 and 10 of Bank A may not exist on all printers.